

General Faculties Council Briefs

The 24 February assembly approved an addition to policy concerning selection committees for Deans and Chairmen, to the effect that such committees should not have as a member "any person with an apparent conflict of interest as determined by the Vice-President (Academic)." It was noted that the VP would react to, rather than initiate allegations of apparent conflict of interest.

Arts students may find it harder to gain a BA (General) with Distinction. As a result of moving to a four-year baccalaureate, the Faculty of Arts, with GFC's endorsement, will now require a minimum GPA of 7.5 "both on the last twenty full course equivalents and on all full course equivalents in the principal subject of concentration." Previously, the general rule was that the award of degrees with distinction was based on performance in the last two years of the program.

The effect of the Arts proposal was noted by more than one GFC member. There was even the suggestion that the former means of assessment was just, in that it allowed a student to be less than serious in his first year of study



FOLIO

University of Alberta

6 March 1986

'Canada, the World and the Future' Opens Monday

To quote the p.a. announcer at the Indy 500, "Ladies and gentlemen, start your engines."

This University's fourth annual "Canada, the World and the Future" conference will get under way at 1:45 p.m., Monday, 10 March. The conference is essentially a critical forum for the interdisciplinary examination of important issues.

Vice-President (Research) J. Gordin Kaplan and President Myer Horowitz will voice introductory remarks at 1:45 p.m.; the sessions start at 2 p.m. with "Where is Canada Going?" This particular session comes under the theme "Future of Canada." There is ample "meat" in it and the other themes—"Canadian Culture—is it?" "What's so free about free trade?" "Canada and the Third World—benevolence or



malevolence?" "Ethics of Technology Change," "Ethics of New Medicine—have we created a monster?" and "Star Wars and Technology."

Speakers include Douglas Roche, Canada's Ambassador for Disarmament; Rosemary McCarney, a Toronto lawyer and staunch

advocate of Canadian nationalism; the Hon. David King, Alberta Minister of Technology, Research and Communications; and David Parnas, former consultant to the Department of Defense, Washington, who resigned over the star wars program.

Newscast watchers, broadcast listeners and newspaper readers undoubtedly have some familiarity with these topics and would like to say something about them or learn more about them. "Canada, the World and the Future" provides these springboards. It's intended to help opinion flourish.

A number of polished and knowledgeable speakers are waiting to express their views. Conference organizers invite University staff, students and the general public to do likewise.

"Canada, the World and the Future," co-sponsored by the Alma Mater Fund and the Office of the Vice-President (Research), will take place in Bernard Snell Hall, Walter C. Mackenzie Health Sciences Centre, 114 Street and 86 Avenue. There will be afternoon and evening sessions. Admission is free. □

Tevie Miller University's New Chancellor

Tevie Miller, Associate Chief Justice, Court of Queen's Bench of Alberta, was elected Chancellor of the University of Alberta last Friday. Associate Chief Justice Miller, who will also serve as Chairman of the Senate, will start his four-year term on 1 July 1986.

The Chancellor was elected in camera.

Associate Chief Justice Miller, who is the 13th Chancellor of the University, succeeds Peter Savaryn.

The new Chancellor is no stranger to the University of Alberta. He earned BA and LLB degrees here, was President of the Students' Union and later sat on the Senate and the Board of Governors. He was also President of the General Alumni Association and a sessional lecturer in the Faculty of

Tevie Miller was appointed Queen's Counsel in 1968. He is a senior partner of Miller, Witten, Friedman, Pekarsky and Vogel and



Tevie Miller addresses the news media.

the President of the Edmonton Bar Association.

In 1974, he was appointed Judge of the District Court of Alberta.

Community involvement is a big part of the Chancellor-elect's life. He has been President of the United Way of Edmonton, a board member of the Edmonton Association for

Retarded Children, Chairman of the City of Edmonton Community Foundation, President of the Edmonton Symphony Society, and Vice-President of the Board of Directors of the XI Commonwealth Games (1978) Foundation.

Coverage of the Senate meeting will appear in next week's *Folio*. □

Contents

- The four-year BSc program
- Geographers to gather
- NSERC grants
- News digest
- McCalla Professorships
- HUB construction timetable



Faculty of Science Moves to Four-Year General BSc Program

Beginning with Spring Session 1986, all new registrants in the BSc General Program in the Faculty of Science will be admitted into the four-year BSc General Program. The three-year General program has been eliminated, although students currently enrolled in it will be able to complete their degree requirements on or before 30 April 1994.

Academic considerations were the primary motivation for the change from a three- to four-year General program. The Faculty of Science saw a need for a program with more structure and coherence, and, at the same time, one possessing sufficient flexibility so that students would not be constrained by choices they may have made in their first year.

As early as 1960, the Faculty of Arts and Science (then combined) began studying recommendations that the General course in Arts and Science be a four-year program. By the late 1960s, the Faculty of Science, which had separated from Arts in 1963, had introduced four-year BSc specialization programs in most departments to meet some of the growing academic demands.

Past University *Calendars* have stated that the "general programs in the Faculty of Science are designed to enable the student to obtain a diversified education in more than one branch of study within the limits of a three-year program," but it has been difficult to meet all of the objectives of the General degree program within a three-year period.

As such, it was desirable to fashion an academically sound program with broad scope and attention to the development of problem-solving and communication skills. Although many students use the General program to prepare for professional or other training programs, the quality of science education offered by the Faculty is foremost and must provide opportunities to meet the challenges of today's technologically based society.

In November of 1980, the Council of the Faculty of Science put forward a motion to establish a committee to study the General degree program. The primary considerations were to be directed to the academic content of the program, and in particular "to define a BSc General degree program having the breadth and depth of education that is a fundamental requirement of a Bachelor of Science degree." The committee, under the chairmanship of D.D. Beatty, then Associate Dean of Science, presented its recommendations in February of 1982.

Information for the review was obtained from a wide variety of sources, including students who were currently registered in the program, graduates of the BSc General degree program from 1970 to 1980, and academic staff members of the Faculty. The committee entered its study with the goal of defining a model General program, with primary concern for academic quality, and without a prejudged notion that the three-year program would, by definition, be abandoned in favor of a four-year program.

In their recommendations, the committee noted that in previous studies, the objectives of a General degree program were defined to be such that they "... should have sufficient 'depth of study as well as breadth of knowledge' to make certain that Science students have an appreciation for the Humanities, Fine Arts and Social Sciences and a solid base of education in Science within a framework which will provide for a reasonable amount of choice of subjects."

In discussing the merits and objectives of the BSc General degree the committee pointed out that the program has the purpose of providing students with an academic environment that provides opportunities to "... become educated in science and have an appreciation for a variety of disciplines, including the Arts ... the General program is for the

education in science of those students who plan on careers in science related areas, in education, in law, in business or who desire a university degree primarily for its intrinsic values."

Surveys

Surveys of students and graduates conducted when the program was being evaluated revealed that many enrolled in a General program because they wanted a university degree as a general qualification. Many graduates expressed the opinion that a weakness in the three-year program was the lack of depth of knowledge obtained. A four-year program will offer more time to achieve an appreciation and understanding of the potential and limits of science, while at the same time it will allow for the development of greater scientific skills.

The Faculty of Science Council approved the four-year proposal on 27 February 1985, and it was endorsed by the Academic Development Committee on 3 April 1985. On 23 May 1985, the Planning and Priorities Committee recommended approval to General Faculties Council. At its 6 June 1985 meeting, the Executive Committee of GFC stated that it would recommend that GFC approve a proposal, which it did on 23 September 1985. At its meeting of 13 December 1985, the Board of Governors, on the recommendation of its Educational Affairs Committee, provided the final approval to allow the program to be implemented.

The four-year General Program is characterized by a major subject or area of concentration in Science and a first year core of courses. A subject of concentration will consist of courses taken from a single department in the Faculty or in the Departments of Biochemistry, Entomology, Pharmacology or Physiology. An area of concentration will be made up of courses taken from one of Biological, Physical, Mathematical, Earth, or Cognitive Sciences. Students must take at least three full course equivalents (FCE) and up to eight FCE in Arts, as well as a maximum of two FCE from Faculties other than Arts or Science as approved options. Details about the program may be obtained from the Faculty of Science or the Registrar's Office. □

This article was contributed by G.A. Moss, Associate Dean, External Relations, Faculty of Science.

Much in Store for Western Geographers

The coordinating committee for next weekend's meeting of the Western Division of the Canadian Association of Geographers would seem to be the master of all it surveys.

More than 40 papers will be presented at the 15 March assembly on the third floor of the Tory Building and committee chairman Ed Jackson is pleased with the variegated subject matter. Also, Dr. Jackson and the members of the planning committee—faculty, students and support staff—have arranged two field trips on 16 March ("Physical Geography of the Edmonton Region" and "Buildings as Indicators of Belief in Edmonton"), demonstrations of the Intergraph computer cartography installation in 3-104 Tory, poster papers and other displays, and informal tours of the University's Map Library.

The annual meeting of the Western Division, Canadian Association of Geographers, is held on a rotating basis in Alberta, the interior of British Columbia and the coast. The last time the meeting was conducted at our University was in 1976.

Dr. Jackson is an unabashed booster of the regional meeting because presenters, including a number of students, tend to be a little more relaxed than they would be at the national conference. Fourteen graduate students and eight undergraduate students are

involved in presentations this year and Dr. Jackson believes the experience will serve as a sound introduction to the geography profession.

Perhaps William Wonders will recall a similar experience or two when he speaks at the Saturday evening banquet in Lister Hall. Professor Wonders, who founded our University's Department of Geography 25 years ago, intends to take a leisurely trip down memory lane.

The meeting will contain papers on the themes "Geomorphology," "Geography and the Third World," "Disturbed Ecosystems," "Economic Geography," "Geography and Health," "Methods," and "Urban and Regional." One of the papers to be given at the latter session is titled "The 'Heart-of-the-City' Problem in Edmonton." Some other titles taken from throughout the proceedings are: "The Development of an Electronics Industry in Western Canada," "The First Solar Wave in Western Canada: The Greenhouse Industry," "Issues Concerning the Disposal of Hazardous Wastes in Alberta," and "The Fourth World: The Historical Underdevelopment of the Economy of the Aboriginal People of Canada."

Between 110 and 150 delegates from universities and community colleges in British Columbia, Alberta and Saskatchewan are expected to attend. All papers will be submitted for publication. □

University's Slice of NSERC Pie is \$1,402,097

Grants totalling \$32.1 million were recently awarded by the Natural Sciences and Engineering Research Council (NSERC) to Canadian university professors for R&D in areas of socio-economic benefit to Canada. University of Alberta faculty received \$1,402,097. Last year's total was \$1,460,233; the total amount released was \$32.2 million.

The selected areas funded by NSERC were: Biotechnology, Communications and Computers, Energy, Environmental Toxicology, Food/Agriculture, Industrial Materials, Oceans, Processes, and Open.

The following list shows the University of Alberta entrants who "pulled through" the recent competition for grants.

S.E. Hrudely, Civil Engineering, \$34,500 for the study of "Anaerobic biological treatment of phenolics" (with D. Westlake, N. Berkowitz, D.W. Smith and P.M. Fedorak).

L.J. Reha-Krantz, Genetics, \$42,050 to study "Developing and testing mutator DNA polymerases as useful reagents for in vitro mutagenesis."

D.E. Taylor, Microbiology, \$41,091 for the study of "Cloning of *Campylobacter jejuni* genes for use as diagnostic DNA probes."

P.K. Kaiser, Civil Engineering, \$70,000 to study "Deep borehole rupture mechanics" (with J.D.

A.A. Offenberg, Electrical Engineering, \$140,000 for studying "Laser fusion related research" (with R. Fedosejevs and W. Rozmus).

J.D. Scott, Civil Engineering, \$61,800 for the study of "Core

sampler for oil sands and heavy oil formations."

P.R. Smy, Electrical Engineering, \$49,900 to study "Enhancement of flame and transport processes in pulsed plasma plugs."

J. Toth, Geology, \$105,020 for the study of "Development of a hydrogeological approach to petroleum exploration."

R.C. Von Borstel, Genetics, \$83,000 to study "Molecular basis of mutagen action."

C. Hiruki, Plant Science, \$32,500 for the study of "Identification and control of major virus diseases of forage legume crops."

N.G. Juma, Soil Science, \$140,000 to study "Development of new management systems to counteract soil degradation" (with S. Pawluk and M.J. Dudas).

P.D. Walton, Plant Science, \$26,500 for the study of "Interspecific hybridization in forage grasses."

W.A.G. Graham, Chemistry, \$35,000, to study "Carbon-hydrogen bond activation by transition metals."

F.D. Otto, Chemical Engineering, \$64,280 for "Selective gas treating" (with A.E. Mather).

J. Tulip, Electrical Engineering, \$65,000 for the study of "High powered waveguide CO₂ laser."

S.E. Wanke, Chemical Engineering, \$70,120 to study "Optimal chemical routes for heavy oil upgrading" (with K.G. Dalla Lana and M.R. Gray).

E.M. Gates, Mechanical Engineering, \$85,500 for studying "Marine icing" (with E.P. Lozowski).

N.R. Morgenstern, Civil Engineering, \$100,392 for the study

of "Ice rubble mechanics" (with D.C. Sego).

K. Muehlenbachs, Geology, \$38,444 to study "An integrated study of precious and base metal mobilization in hydrothermally altered oceanic crust" (with B.E. Nesbitt).

W.A. Ayer, Chemistry, \$67,000, for the project "Phytochemical investigation of important forest diseases. Blue stain fungi associated with the mountain pine beetle"

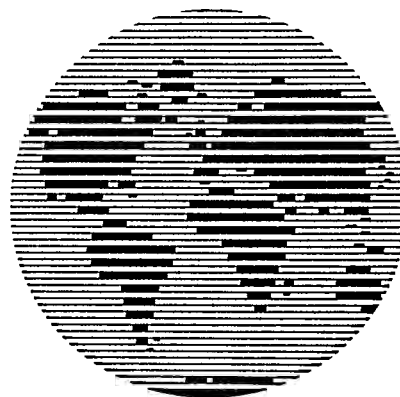
(with Y. Hiratsuka.)

H.J.J. Seguin, Electrical Engineering, \$50,000 to study "Glow discharge stabilization with magnetic fields" (with C.E. Capjack).

NSERC is this country's largest research granting agency. In 1985-86, through its programs of grants and scholarships, NSERC will invest nearly \$300 million in the support of more than 17,000 researchers and students. □

Canada, the World and the Future

March 10 - 14, 1986



- Where is Canada going?
- Canadian Culture — is it?
- What's so free about free trade?
- Canada and the Third World — benevolence or malevolence?
- Ethics of Technology Change
- Ethics of New Medicine — have we created a monster?
- Star Wars and Technology

Hear outstanding experts. Voice your opinions on some of the most challenging issues facing you, now and in the future.

Daily Sessions: 2 to 4:30 p.m.
7:30 to 10 p.m.

Artistic Performance: Thursday, March 13
8 to 9:15 p.m.
Convocation Hall

Bernard Snell Hall
Mackenzie Health Sciences Centre
University of Alberta Hospitals

Free Admission

For further information:
Office of Public Affairs
University of Alberta
432-2325



Students Helping Disabled Colleagues

About 150 student volunteers are giving freely of their time this year to help a worthy cause—disabled students. The number of volunteers is up by 50 percent from last year, but then the University's disabled student population has increased by almost that much as well.

Marion Nicely, the Disabled Students' Coordinator, credits the expanded number of services available to these special students as the main reason for the increases in both students and volunteers. "We are meeting more of their specialized needs," she says. "Our services and the work of our volunteers is also becoming more widely known."

Student volunteers do

"everything" according to Nicely. This includes writing notes in class, writing exams, reading onto tape and assisting students in manual wheelchairs. An educational interpreter who is fluent in sign language has also been hired, a move that should help hearing impaired students immensely (previously, interpreters were used on a freelance basis).

Over the past couple of years there has been a significant increase in disabled students on campus and Nicely feels that enrolment will continue to increase as more disabled people become aware of how the University is making education more accessible for them. □

News From Here and There

There's A Place for Peace in SUB

Inspired by the success of the Peace Tent at last year's International Forum in Nairobi, the International Students' Centre is creating a "Peace Place" in SUB basement during International Awareness Week, 11 to 14 March. A variety of organizations have put together a program of events, daily from noon to 9 p.m., that will be interesting, exciting, cooperative, and above all peaceful. Creating a peace bird (Origami) is the first activity, and during the week there will be songs, forums, poetry and readings, workshops, films, speakers and displays, concluding with a candle-light vigil on Friday night at 7.30.

CAUT Protest

CAUT President E.O. Anderson has issued a strong protest at the breaking of the Progressive Conservative party's election commitment to sustain the current federal

financial commitment to the financing of post-secondary education according to the formula set out in the 1977 Agreement. Despite a clear promise, says Professor Anderson, the government introduced new legislation in February to reduce transfer payments to the provinces, and this will create a shortfall for post-secondary education totalling some \$1.7 billion over the next five years.

What is at issue is whether or not the government is going to provide the financial support necessary for a first rate university system, he declares, and he has called upon both levels of government to negotiate once and for all a stable financing formula for post-secondary education.

Not All Bears Are Golden

Bear attacks and how to avoid them will be Stephen Herrero's topic on Wednesday, 12 March, when he gives the first talk in the Faculty of Extension's two-session course on mountain hazards. Dr. Herrero,

the internationally-recognized expert on bear behavior, has recently published a book, *Bear Attacks: Their Causes and Avoidance*.

Avalanches are the subject of the second session, Wednesday, 19 March, and the expert then will be Tony Daffern. He will discuss avalanche terrain and meteorology and hopes to impart enough basic skills and knowledge to enable travellers in snow country to evaluate conditions and take proper precautions.

These courses are very popular. If you really want to know how to avoid bears and avalanches, register early by calling 432-5061 or 432-5532.

University Orientation Days a Big Drawing Card

University Orientation Days, held 20 and 21 February, drew 6,500 visitors to campus. In addition to grade 10, 11 and 12 students from 145 high schools in Alberta, there were a number of students from schools in B.C. and Saskatchewan, plus 850 parents and 50 high schools counsellors.

The event, which was coordinated by Becky Hjartarson of the Registrar's Office, gives high school students a strong indication of what a university education is all about. Students pre-registered in 120 sections of University courses and attended simulated first-year lectures. Parents attended separate orientation sessions.

Some 55 displays in CAB met with the approval of the visitors.

Last year, about 4,300 people attended University Orientation Days.

Records Expected to Be Broken

At the Canadian Intercollegiate Athletic Union (CIAU) championships, to be held 14 and 15 March in the Universiade Pavilion, Alberta Golden Bear Brian Monaghan is expected to break the record in the men's 600m, and our University's men's and women's track and field teams are expected to be among the top three finishers, says coach Al Weicker.

Last year's championships produced three men's and seven women's meet records. This year, pre-championship performances have already erased five CIAU records. Record marks expected to fall include those in the women's 1,000m, men's 1,500m and the pole

vault. The action starts at 6.30 p.m., 14 March.

New Building for Shastri Indo-Canadian Institute

During a recent visit to India by External Affairs Minister Joe Clark, he and the Indian Minister of External Affairs, B.R. Bhagat, unveiled plans for a new building to house the Shastri Indo-Canadian Institute in New Delhi.

The building, to be paid for by the governments of Canada and India, will establish a focus for the Indo-Canadian academic and cultural exchanges that have been going on since the Institute's foundation in 1968. Funded by both national governments, the Institute is a unique educational enterprise whose purpose is to give Canadians an awareness of India's rich past and challenging present, and to promote in India the study and knowledge of Canada.

Our University is one of 15 in Canada which, along with the National Library of Canada, pay annual membership fees that enable participation in academic exchanges, conferences and research programs.

Lecture Cancelled

The 11 March lecture by Harry Hill, Director General, Prairie Farm Rehabilitation Administration, Regina, has been cancelled. Dr. Hill had been scheduled to discuss "Soil and Water Conservation" under the sponsorship of Agricultural Engineering, Soil Science, and the Water Resources Centre. □

Beware of Fraudulent Airline Tickets

It has recently become apparent that someone has been using student notice-boards to advertise fraudulent airline tickets for sale. Persons availing themselves of such offers from third parties for return, or other, portions of air tickets are warned to exercise caution. If you have any doubt about the validity of such offers you should contact Campus Security at 432-5252 and/or the City of Edmonton Police Department at 423-4567. □

FOLIO

Volume Twenty-two
Number Twenty-eight

Office of Public Affairs
423 Athabasca Hall
University of Alberta
Edmonton, Alberta T6G 2E8
(403) 432-2325.

All enquiries and
correspondence should be
directed to:
Ron Thomas
Editor

Public Affairs produces *Folio*
on a regular basis for the
staff and other interested
persons.



University
of
Alberta

Deadlines:

Notices of coming events: 9 a.m. three weeks in advance of desired publication date.
Classified advertisements: 3 p.m. one week in advance of desired publication date. This date also serves as the deadline for cancellation of advertisements. Advertisements cost 30 cents per word with no discount for subsequent insertions. There is a maximum limit of 30 words and a minimum charge of \$1.50. Contributors' corrections will be assessed at \$1.50 for each line in which an insertion is made. Advertisements cannot be accepted over the telephone. All advertisements must be paid for in full at the time of their submission.
Display advertisements: 3 p.m. one week in advance of desired publication date. Contact Public Affairs for sizes, rates and other particulars.

The editor reserves the right to select, edit and position submitted copy. Views expressed in *Folio* do not necessarily reflect University policy.

Folio contents may be reprinted with acknowledgment.

ISSN 0015-5764
Copyright 1986

Alan Bryan, Victor Chan: McCalla Professors

The initial peopling of the Americas by ancestral Indians, a significant historical problem relating to cultural evolution, has been the primary research of 1986-87 McCalla Professor Alan Bryan, Anthropology. According to Bryan, a "logical impasse has developed because the prevailing model of archaeologists is unable to explain available archaeological evidence." He goes on to say that "the concept of an early entry (at least 50,000 years ago) by people using a simple flaked stone technology is advocated by a few archaeologists, myself included, in order to explain a large body of archaeological evidence in North America and newly discovered evidence from South America."

Dr. Bryan feels that the actual archaeological evidence indicates that the earliest Amerindians were foragers who had a relatively simple flaked stone technology with unifacially retouched tools. Work has shown that more sophisticated bifacial industries evidently developed independently from this base in different parts of North and South America. There is additional evidence from a few sites with unusual preservation which shows that the early people used whatever materials were readily available. Bone and wood were frequently used for making tools, although these and other perishable materials are not normally preserved in ancient Pleistocene sites.

The time has come, says Dr. Bryan, to review comprehensively the available field evidence, and to develop a reasonable theoretical model with derived testable hypotheses which will explain that evidence, rather than archaeologists continually having to "explain away" all archaeological evidence dated earlier than 12,000 B.P. A year free from teaching and other duties will allow him "to present a theoretical synthesis in book form of the problem of the peopling of the Americas, applying a model of multilineal technological evolution by various innovative human groups adapting to the diverse environmental regions of the Americas."

Victor Chan

The reconstruction of the evolution work done by the Spanish artist Goya and the unfolding of the hidden meanings behind it will be the time-consuming project undertaken by Victor Chan, Art and

Design, during his McCalla Professorship.

Goya's series of 80 etchings and aquatints titled *Los Caprichos* lies magnificently at the threshold of modern art, according to Dr. Chan. The work was published in Madrid in 1799 and its impact was immediate and terrifying: the ambiguous settings of the plates create a new level of pictorial reality, the economy and monumentality of the compositions heighten the normal perception, and the bewildering complexity of the subjects is rich beyond expectation. It would have achieved

a great contemporary success had it been made available to a wider audience throughout Spain and elsewhere. Yet a curious combination of circumstances forced Goya to withdraw the work from sale only two weeks after it appeared and in 1803, attempting to protect the work from prosecution and destruction, Goya offered the copper plates to the Crown.

While many of Goya's contemporaries and later art historians suspected plausible offensive elements in *Los Caprichos*, the precise reasons for its withdrawal are unknown. One

American scholar, Fred Licht, recognized that "our understanding of the whole temper of Spain in the early nineteenth century would be greatly enlarged if light could be shed on the concrete events that led the artist to withdraw the first edition of the *Caprichos*. Our knowledge of the circumstances is still curiously limited; we know hardly anything about the motivations that permitted the king to accept such an explosive set of etched plates . . . The formal history of these images has still to be written." Dr. Chan hopes to change all this. □

Accounting Foundation Honors Faculty Member

The Accounting Education Foundation of Alberta recently awarded the first Vic Dzurko Memorial Fellowship to Ross Denham, Associate Dean of the Faculty of Business. Dr. Denham received the fellowship for his "many contributions to chartered accounting education and meaningful interaction with the CA profession."

The Foundation noted Dr. Denham's membership on the Professional Examination Board in Chartered Accountancy of Alberta, his chairmanship of the Education

Committee of the Canadian Academic Accounting Association, and his instructing and writing of course materials for professionally applied university courses.

The Vic Dzurko Memorial Fellowship is awarded every second year to a member of the University's Department of Accounting who makes a significant contribution to professional accounting education through work with accounting students and the accounting profession. A total of five awards will be presented, the first being in 1986.

The fellowship, consisting of \$4,000, a personal plaque for Dr. Denham, and a bronze plaque to be hung in the Faculty of Business Building, is awarded by a committee composed of the Chairman of the Department of Accounting, the Director of the Centre for the Advancement of Professional Accounting Education, the Dean of the Faculty of Business, a senior undergraduate student and a designate for the Institute of Chartered Accountants of Alberta. □

Room to Grow at Biomira

Biomira Inc., the federally-incorporated company organized exclusively to commercialize technology developed at the University of Alberta, is hardly strapped for space,

The company, formed late last year with its headquarters in Edmonton, recently signed a lease agreement for the use of 8,212 square feet of Research Centre One. The agreement is with the Edmonton Research and Development Park Authority. Research Centre One is the Park-owned, multi-tenant building for advanced technology companies.

Biomira will convert the space into research labs and office space for occupancy by 1 June 1986.

The firm has a particular interest in discoveries made in the laboratories of A.A. Noujaim, Pharmacy and Pharmaceutical Sciences, and B.M. Longenecker,

Immunology. "Their research, conducted over the last 10 years into the role of carbohydrate antigens in the diagnosis and treatment of cancer, has led to recent significant technical advances which are ready to be incorporated in commercial products."

The shareholders of Biomira are the University of Alberta, the founding management and scientific team, and an investor group made up of some of Canada's largest corporations and financial institutions.

Gordon Politeski is the President of Biomira Inc. □

HUB Construction Work Starting in May

The Planning and Development Department is coordinating some major construction work for the Housing Union Building (HUB) this summer. Work approved will consist of the replacement of the existing acrylic skylights with a new sloped glazing system, re-roofing (entire HUB roof), insulation and flashing of the

existing protected membrane roof, and provision of new upper mall exhaust fan and related work.

The contractor will be on site 1 May 1986 to construct protective hoarding on the outside west side of HUB. It is expected that this work will be completed by the fall of 1986. □

The Family That Plays Together . . .

Campus Recreation's next Family Fun Sunday promises an afternoon bursting with parachute games, tag relays and assorted cooperative pursuits in the Pavilion, followed by a recreational swim in the West Pool.

All activities, says Campus Recreation's Barb Wood, are designed to accommodate all age groups in attendance. Participants

will be encouraged to select from a broad range of events.

There is no cost for the event which will be held on 16 March from 2 to 4 p.m.

Interested families are asked to call Campus Recreation (432-2555) between 9 a.m. and noon or 1 and 4 p.m. to indicate their intent to participate. The cutoff date for "registration" is 13 March. □

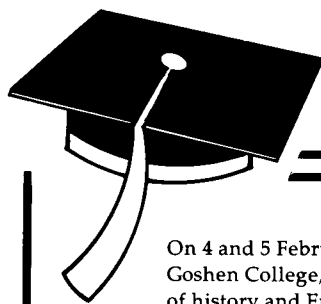


Graduate Research Symposium 86

Poster and paper presentations reflecting the breadth and excellence of graduate student research

Lister Hall

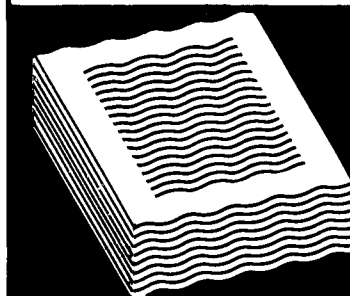
Monday, March 10
9 a.m. - 4 p.m.



Activities

On 4 and 5 February, Sara Stambaugh was the guest of Goshen College, Goshen, Indiana. She spoke to students of history and English on "Point of View in *I Hear the Reaper's Song*" and addressed the Mennonite Historical Society on "The Novel as Social History." A third talk, to the student body, was titled "Contexts and Mennonite Backgrounds" . . . Debbie Shogan was recently chosen as one of the coaches being honored under the Canadian Olympic Association's Coaching Recognition Program . . . Tom Bessai, a second-year Arts student, has been named to the Canadian Track & Field National Team. He will compete in the world cross-country championships in Switzerland on 23 March . . . Karol Krótki, University Professor/Sociology, in his capacity as Vice-President of the Academy of Humanities and Social Sciences of the Royal Society of Canada, attended the annual regional symposium of the Society at the University of British Columbia. He presented the paper "Early Results from the First All-country Fertility Survey in Canada."

Currents



International Papers

The International Student Centre is now receiving the *China Daily*. The Centre receives the New York edition, which is transmitted by satellite to the printers in New York and published on the same day as the Chinese edition.

China Daily competes for space with many other publications from around the world, including the *Manchester Guardian*, *India Today* and *West Africa*. The Centre is at 11023 90 Avenue.

Communicating With Others

The Extension Faculty is presenting courses this term that deal with interpersonal communications in the areas of public speaking, overcoming shyness, and assertion training. For further information or a brochure, telephone 432-5069.

Teaching Opportunities Overseas

The Office of the Associate Vice-President for International Affairs (3-12A University Hall, 432-3213, 432-2280) is interested in receiving the names of anyone wanting to learn of teaching opportunities overseas, particularly the Asia/Pacific region. Currently, two institutions in China (one in Xian, one in Beijing) are seeking candidates to teach Canadian/American literature, and English language. Candidates should have at least a Master's degree and teaching experience.

University Toastmasters

With the exception of a supper meeting (6:30 to 9:30 p.m.) on the first Wednesday of the month, University Toastmasters meet each Wednesday from noon to 1 p.m. in 1-20F Cameron Library. Guests welcome. For more information, telephone Mark, 432-3308.

Workshop on Journal Writing

A Proffoff Intensive Journal Workshop on Journal Writing will be conducted on 22 and 23 March in the 10th floor lounge, Education South. Times are 9 a.m. to 4 p.m. daily.

Therese Craig will be the instructor for the Department of Secondary Education-sponsored workshop.

Attendance is limited to 30 people. There is a fee of \$30 for materials which must be paid in advance at time of application for registration.

Application forms are available from Secondary Education, 338 Education South.

Folio

Display Advertising

Folio is the official news publication of the University of Alberta, published every Thursday throughout the year (except for July and August when it appears bi-weekly). It has a regular distribution of 9,000 of which 7,800 copies are circulated to teaching and support staff, to graduate students and to other interested people on campus. The remaining copies are sent to provincial and municipal government personnel, news outlets, and businesses and people off-campus.

Sizes and rates

The basic unit size is 27 agate lines x 23 picas (3 7/8" x 2"). The full page is divided into 10 such units, any combination of which is available at a cost of \$35 per unit (minimum 1 unit). Half page cost: \$175. One column cost \$87.50. There is a 15% discount for University departments. A 10% discount is offered for five or more consecutive insertions.

Other specifications

Half-tones (100-line screen or less) are acceptable; no color or bleeds. Camera-ready copy is necessary; there is a charge of 30c per word for typesetting, and \$7.50 for adjustment of design work.

Deadlines

Deadline for submission is 3 p.m. one week in advance of desired publication date. Acceptance of advertisements and positioning are at the discretion of the Editor. For more information, telephone (403) 432-2325 and ask about *Folio* display advertising, or write to: *Folio* Display Advertising Office of Public Affairs 423 Athabasca Hall University of Alberta Edmonton, Alberta T6G 2E8

Focus on Land of Rising Sun

Thanks largely to the generosity of the Consulate-General of Japan in Edmonton, the Department of East Asian Languages and Literatures, with the cooperation of the Departments of Anthropology, Geography, History, Religious Studies, and Organizational Analysis, and the Advisory Council on Women's Studies and the Women's Program, is pleased to present a series of lectures and an evening of films under the title "Japan: Tradition to High-Tech."

The invited lectures will cover a broad range of topics as the speakers come from a wide variety of backgrounds. H. Tanaka, University of Lethbridge, has expertise in two disciplines. His first love is cultural geography with a particular interest in pilgrimage. However, he is currently teaching in the School of Management specializing in Japanese management with a specific concern for the use of robots in the workplace. His lectures reflect his diverse interests. On 12 March at 3 p.m., he will give a slide lecture on "A Japanese Buddhist Pilgrimage: 1,400 kilometres on foot around the Shikoku Island." The next day at 3:30 p.m., he will present "The Robot Age is upon us: what we can learn from the Japanese experience."

Tsurumi of the University of Victoria has published extensively in the fields of Japanese colonialism and the education of the Meiji

period (1868-1912). Her current research involves the history of Japanese women. She will speak on a topic of general interest, "Japanese women: past and present" at 8 p.m. on 13 March.

A. Yano of the Osaka University of Foreign Studies is a visiting researcher with the Department of East Asian Languages and Literatures. She is studying the differences in the way Japanese culture is taught outside Japan compared to how it is taught in Japan. Her topic, "Mother-image in

Japanese society," addresses a key aspect of Japanese culture.

J. Kupczyk, a newcomer to Edmonton, began his studies of Japanese language and culture at the University of Warsaw and has done extensive research on Japanese literature and music at Tokyo Geijutsu Daigaku (Tokyo University of Fine Arts). His talk, "Hōgaku: Traditional Japanese music," will introduce the various instruments of traditional music by playing sample recordings of the various styles from 9th century

court music to more recent folk songs. Both Prof. Yano's and Mr. Kupczyk's lectures will take place on 14 March (3 to 5 p.m.).

The lecture series will be completed with an evening of films on 14 March. The titles are "Hand-made Japanese Paper," "The Miracle of Tsubosaka Temple" (a Kabuki play), "Manga: The Cartoon in Contemporary Japanese Life," and "High-Tech in Japan." All events are free. See the "Talks" column in this issue for details of time and place. □

Faculty of Extension Shaping Summer Youth University

The Faculty of Extension is going with the flow. Last year's initial Summer Youth University (SYU) was a certifiable success and enquiries about this summer's offerings have started already.

Extension's Maryanne Budnitsky says SYU '86 is an expanded program with three Arts and Science programs and an intensive program in computing science. The topics scheduled combine daily classes in the morning with an athletics program emphasizing life-style fitness in the afternoon, topped off with a recreational swim. (The program is structured in cooperation with the Department of Athletics' Summer Sports Camps.)

The Arts and Science program will be run from 7 to 18 July, and will be repeated 21 July to 1 August. The program is open to students in grades 8 to 12.

The computing science segment will be limited to students in grade 12. Two levels covering basically the same content will be offered. Level 1 (7 to 18 July) is for students with little no computer experience. Level 2 (21 July to 1 August) is for students with some previous experience.

Each of the three Arts and Science programs will contain four of the following subjects: English, Music, Psychology, Genetics, Microbiology, Physics, Animal Science, Geography, Law, Family Studies and Vertebrate Biology.

Registration is limited. To secure a place, pre-registrations will be accepted. Detailed brochures containing registration forms will be available on 1 April, at which time general registration will begin. □

'Greek Evening' at CMI Meeting

12 March is "Greek Evening" for purposes of a meeting of the Edmonton Chapter of the Canadian Mediterranean Institute.

The program will include the film "In Search of Ulysses" (with an introduction by J.R. Wilson of the Department of Classics) and a performance of Greek dances by the

Kyklos dancers. This will be followed by a social gathering at which some Greek refreshments will be served.

Tickets are \$5 each.

The meeting will start at 7:30 p.m. in the auditorium of the Provincial Museum. □

FSIDA Allocations Have Company

Three projects recently received word from the Fund for Support of International Development Activities (FSIDA) that the Alberta Agency for International Development has, through its funding grants program, agreed to augment funds already approved by FSIDA. Amy Zelmer, Associate Vice-President (Academic), received \$4,683, in addition to a \$5,000

FSIDA grant, for an enrichment program of Bangladesh libraries; L.A. Kosinski, Geography, was awarded \$2,972 for a project concerning population redistribution in China; Carl Urion, Native Affairs, for his work in the area of instruction of secondary-level teachers in Belize, was granted \$1,728. □

Competitive Employment for Disadvantaged Adults Objective of PWI Program

Steven Dennis, Thomas Ebert and Donald Bevan, Honorary Assistant Professors with the Department of Occupational Therapy, Faculty of Rehabilitation Medicine, were recently awarded a \$50,000 grant under the Job Development Program of Employment and Immigration Canada.

Wheels started turning on 3 March. The money is being used to develop and assess the feasibility of an innovative program which entails training in industry, work experience and competitive job placement for severely employment disadvantaged persons. The program, titled "Projects With Industry" (PWI), is unique in Canada. It is a model founded on a partnership between government, business and rehabilitation service providers, merging their respective resources toward the achievement of a common goal—competitive employment for the disadvantaged adult. In addition to the partnership

feature, the PWI model emphasizes a community-based, as opposed to an institution-based, service delivery system, and its major focus is on job training and job placement.

The initial program development will be conducted at Western Industrial Research and Training Centre (WIRTC) in Edmonton and will be targeted toward individuals who are employment disadvantaged by reason of a mental disability, psychiatric disability or related handicapping condition. Upon successful completion of the development phase, Projects With Industry will be eligible for \$1 million in operational funds over a three-year period.

Mr. Ebert is currently the President of WIRTC, Dr. Dennis is Vice-President of Research, and Mr. Bevan is Vice-President of the Program Division. □

Librarians Working to Support Library Service in Nicaragua

A number of librarians in Edmonton are coordinating a project to raise funds to support library service in Nicaragua.

The project concerns the purchase and shipment to the National Cataloguing Centre of Nicaragua six copies of the Spanish Language subject headings, *Lista de Encabezamientos de Materia para Bibliotecas* 2nd edition, 1985 (LEMB II).

The National Cataloguing Centre of Nicaragua orders, receives, catalogues and distributes library materials to the National Library and 46 public libraries throughout the country. There are six cataloguers who require copies of LEMB II.

The Government of Nicaragua has placed a high priority on the creation of libraries and improving the literacy of the people. However,

funds available for the purchase of library materials are limited.

Maryon McClary, on leave from the Herbert T. Coutts Library, is currently working for the National Cataloguing Centre of Nicaragua. She has suggested the subject headings project as one that would be of very real and practical value to her colleagues in Nicaragua.

It is estimated that \$1,500 (Canadian) is needed to purchase and ship LEMB II to Nicaragua. It is hoped that this will mark the beginning of an on-going program

of Canadian support for libraries in Nicaragua.

Donations for the subject heading project are being accepted through Tools for Peace, a volunteer, non-profit organization working to send aid to Nicaragua.

If you would like to support project, send your donation to: Library Project, c/o Neil Campbell, Law Library. Make cheques payable to "Tools for Peace—Library Project."

All donations over \$15 will receive a tax receipt. □

Alison Jaggar to Lecture on Behalf of Advisory Committee on Women's Studies

Alison Jaggar, Wilson Professor of Ethics, University of Cincinnati, is on campus as Distinguished Guest Lecturer. Professor Jaggar is the final speaker in the Women's Studies Lecture Series, which is sponsored by the Vice-President's (Academic) Advisory Committee on Women's Studies and the Faculty of Arts.

Alison Jaggar obtained her PhD in Philosophy from State University of New York at Buffalo, and in 1982, became a Professor of Philosophy at the University of Cincinnati. She was the first occupant (1984-85) of the New Jersey state-endowed chair in Women's Studies at Douglass College, Rutgers University. She is the author of *Feminist Politics and Human Nature* and co-editor with Paula Rothenberg of *Feminist Frameworks: Alternative Theoretical Accounts of the Relations Between Women and Men*. Professor Jaggar is

also the author of numerous articles which have appeared in such journals as *Philosophy and Phenomenological Research*, *Social Theory and Practice* and in the books *Feminism and Philosophy*, and *Readings in the Philosophy of Sex*, to name a few.

Professor Jaggar will give a public lecture ("Women: Different but Equal") on 12 March (7:30 p.m., L-1 Humanities Centre). In this talk, which is co-sponsored by the Women's Program and Resource Centre, Faculty of Extension, she will discuss the question of whether being equal means being the same.

The Advisory Committee on Women's Studies wishes to acknowledge the financial assistance provided by the Endowment Fund for the Future and the Secretary of State, Women's Program. □

Student Advisors Aim for Continuity

Advisors from across campus met on 26 February for the first of what will be bi-annual meetings to discuss the coordination of advisory services to students. Another objective of the meeting was to have each advisor explain to the others the areas of his/her responsibilities.

Approximately 40 people attended the sessions which included a discussion by Doug Langevin, Director of Campus Security, and Jim Robb of the Campus Law Review Committee, on the recent changes in disciplinary procedures on campus; and a review by Ellen Solomon, Coordinator, PACSH, and Anne McLellan, Director, PACSH, on the University's policy on sexual harassment and a comparison with

other Canadian university policies.

Participants also heard panel discussions on the levels of advisory exchange: level 1, advice and referral; level 2, responsible agent and coordination with other advisors; and level 3, formal hearing/appeal, designated official. The use of record keeping and the use of standardized record forms was also looked at, as was the development of a comprehensive advisory services brochure. The final agenda item dealt with an open discussion on the future coordination of advisory services and the publicizing of these services through seminars set up for other administrative and academic units on campus. □

Talks

Colloquia on Systems Research

6 March, 2 p.m. Humberto Maturana, University of Chile, "Autopoiesis." 5-15 Tory Building. Lectures are sponsored by the Center for Advanced Study in Theoretical Psychology, Sociology and Educational Psychology.

Business and Economics

6 March, 3:30 p.m. Michael Trebilcock, University of Toronto, "Adjustment Issues in Declining Sectors." 4-16 Business Building.

Medicine

6 March, 2:20 p.m. Forrest Weight, Chief, Laboratory of Preclinical Studies, NIAAA, Rockville, Md., "Ionic Currents in Excitable Membranes." 968 Medical Sciences Building.

7 March, 2 p.m. Dr. Weight, "Effects of Ethanol, Phenobarbital and Diazepam on Brain Metabolism." 932 Medical Sciences Building.

7 March, 2 p.m. Clifford Kay, Royal College of General Practitioners, Manchester Research Unit, England, "Oral Contraception Risk for Cancer and Stroke: The 1968-Initiated Cohort Study of 46,000 U.K. Women." 13-114 Clinical Sciences Building.

8 March, 8 a.m. L. Davis, "Investigation and Management of Back Pain." 5H202 Mackenzie Health Sciences Centre.

Computing Science

6 March, 3 p.m. Lorna Stewart, Department of Computer Science, University of Toronto, "Permutation Graph Decomposition." 619 General Services Building.

CITL

6 March, 3 p.m. Lyle Larson, "Teaching in Graduate Seminars." TB-W2 Tory Building.

11 March, 3 p.m. Charles M. Bidwell, "Promoting Participation in Large Class Lectures." TB-W2 Tory Building.

12 March, 1:30 p.m. John S. Martin, "Interactive Learning: Computer Dialogues, Simulations, and Games." 221 General Services Building.

13 March, 1 p.m. Luma Chernenkoff, "Computer Literacy." 349 CAB.

19 March, 2 p.m. Ron Kratochvil, "Instruction in Intermediate-Sized

Laboratory Science Courses." TB-W2 Tory Building.
20 March, 1 p.m. Don Massey, "Improving Instruction Through Video Taping." 165 Education South.

Physics

6 March, 3:30 p.m. L.F. Abbott, Brandeis University, "Stability and Instability of Scalar Fields Coupled to Gravity." P-631 Physics Building.

Literary Theory Series

6 March, 4 p.m. S. Neuman, "Importing Difference: Feminist Criticism and Canadian Women Writers." 5-20 Humanities Centre.

Entomology

6 March, 4 p.m. C.P. Abecia, "Popula. Development of the Acarine Fauna on Soybeans Grown in a Modified Grassland." TB-W1 Tory Building.
13 March, 4 p.m. J.F. Landry, "Systema Scythrididae Nearcticorum: A Modern Linnean Exercise on Forgotten Microlepidoptera." TB-W1 Tory Building.
20 March, 4 p.m. W.H. Wagner, Department of Botany, University of Michigan, Ann Arbor, Michigan, "A Comparison of Plant and Animal Cladistics." TB-W1 Tory Building.

Women's Program

6 March, 7:30 p.m. Zohra Husaini, "Making Visible the Reality of Immigrant Women." 120 Corbett Hall.

Advisory Committee on Women's Studies

7 March, 2:30 p.m. Alison Jaggar, "Further Discussion of 'Teaching Sedition.'" Location: 5-180 Education North.

12 March, 7:30 p.m. Alison Jaggar, "Women: Different But Equal." Co-sponsored by Women's Program and Resource Centre, Faculty of Extension. L-1 Humanities Centre.
20 March, 7:30 p.m. Daphne Marlatt, Writer-in-Residence, "A Reading by Daphne Marlatt." L-1 Humanities Centre.

Centre for the Study of Mental Retardation

7 March, 12:30 p.m. C.K. Leong, Instit. of Child Guidance and Development, University of Saskatchewan, "Varieties of Dyslexias." P-121 Biological Sciences Centre.

East Asian Languages and Literatures

7 March, 3 p.m. Students' Speech Contest in Japanese. Sponsored by the Consulate-General of Japan. L-2 Humanities Centre.

Zoology

7 March, 3:30 p.m. Nicholas C. Spitzer, Department of Biology, University of California, "The Autonomous Early Differentiation of Spinal Neurons." L-1 Biological Sciences Centre.
14 March, 3:30 p.m. Roy A. Stein, Department of Zoology, Ohio State University, "Stocking Piscivorous Predators Into Ohio Lakes: Applying Ecological Approaches to Fish Management." M-149 Biological Sciences Centre.
21 March, 3:30 p.m. Raymond T. Damian, Department of Zoology, University of Georgia, "Parasite Evasion of the Host Immune Response." M-149 Biological Sciences Centre.

Comparative Literature

7 March, 3 p.m. Philip Knight, "Literary Modernism and Homosexual Consciousness." Senate Chamber, Arts Building.
14 March, 1:30 p.m. Gerald Prince, University of Pennsylvania, "Narratology and the Double Logic of Narrative." Senate Chamber, Arts Building.
14 March, 3 p.m. Inger Lauridsen, "Sex in Uncensored, Contemporary Russian Literature." Senate Chamber, Arts Building.
18 March, 4 p.m. Gerald Prince, "Narrative Pragmatics and Narrativity." Senate Chamber, Arts Building.

Plant Science

10 March, 1 p.m. Hanumantha R. Pappu, "Mycovirus: Natural Enemy of Plant Pathogenic Fungi?" 1-06 Agriculture-Forestry Centre.
17 March, 1 p.m. Robin Lagroix, "To Seed or Not to Seed." A review of reproduction strategies in plants. 1-06 Agriculture-Forestry Centre.
19 March, 1 p.m. Hugh Bunting, Professor Emeritus, University of Reading, England, "Why Are the Tropics Different?" Drought, phenology and the yield of crops. 1-06 Agriculture-Forestry Centre.

Slavic and East European Studies

10 March, 3 p.m. Hans Altman, "Stalin's 1930s: An Inside View from a German Engineer." 776 General Services Building.
17 March, 3 p.m. George Gravowicz, Harvard University, Ukrainian-Russian Literary Relations in the 19th Century." 776 General Services Building.

Music

10 March, 3 p.m. Regula Qureshi, "Ask the Musician: Performance Strategies in the Sufi Ritual of South Asia." 2-15 Fine Arts Building.
18 March, 3:30 p.m. Beverly Cavanagh, "Naskapi Indian Myth and Music." 2-32 Fine Arts Building.

Rehabilitation Medicine

10 March, 4:30 p.m. Thelma Wells, Associate Professor/Associate Research Fellow, School of Nursing, University of Michigan, "Analyzing Clinical Problems in Care of the Elderly: Immobility and Incontinence." Faculty of Nursing, 3-101 Clinical Sciences Building.

Jewish Christian Dialogue Group

11 March, 3:30 p.m. Rabbi Akiba Mann, Beth Israel Synagogue, will speak on "Passover." St. Joseph's College Lounge.
25 March, 4:30 p.m. Rev. Tim Scott on "Thomas Merton." St. Joseph's College Lounge.

English

11 March, 3:30 p.m. bp Nichol and Daphne Marlatt, "Narrative in Language: The Long Poem." 5-20 Humanities Centre.
14 March, 3:30 p.m. A poetry reading by bp Nichol. L-3 Humanities Centre.

Boreal Institute for Northern Studies

12 March, noon. Clifford Hickey, "Northern Social Science at the University of Alberta—Where Do We Go?" TB 1-25 Tory Building.
19 March, noon. Michael Asch, "Consociation and Constitutional Development in the Western Northwest Territories." TB 1-25 Tory Building.

Forest Science

12 March, noon. Kevin Eberhart, "Distribution and Composition of Residual Vegetation Associated With Large Fires in Alberta." 4-1 Mechanical Engineering Building.
19 March, noon. Neil Stevens, "Effects of Fire on Annual Allowable Cut." 4-1 Mechanical Engineering Building.

Sociology

12 March, noon. W. David Pierce, "A Biobehavioral Approach to Human Behavior." 5-15 Tory Building.

Japan: Tradition to High-Tech

12 March, 3 p.m. H. Tanaka, University of Lethbridge, "A Japanese Buddhist Pilgrimage: 1,400 Kilometres on Foot Around the Skikoku Island." L-4 Humanities Centre.
13 March, 3:30 p.m. Dr. Tanaka, "The Robot Age is Upon Us: What Can We Learn From the Japanese Experience?" 2-05 Business Building.
14 March, 3 p.m. A. Yano, Osaka University of Foreign Studies, "Mother Image in Japanese Society." L-4 Humanities Centre.
14 March, 4 p.m. Janusz Kupczyk, University of Warsaw, "Hōgaku: Traditional Japanese Music." L-4 Humanities Centre. All lectures sponsored by the Consulate-General of Japan and supported by Anthropology, Geography, Religious Studies, Organizational Analysis, and East Asian Languages and Literatures.
13 March, 8 p.m. P. Tsurumi, University of Victoria, "Japanese Women: Past and Present." L-1 Humanities Centre. Co-sponsored by the Consulate-General of Japan, History, Women's Studies Program, and East Asian Languages and Literatures.

Botany

12 March, 4 p.m. Agnes Vanende, "Polyphenolic Variation of Bud Exudates in *Populus trichocarpa* Torrey and Gray." M-149 Biological Sciences Centre.
19 March, 4 p.m. Dan MacIsaac, "Plant Community Development and Vegetation Pattern on Proglacial Moraines. Banff and Jasper National Parks." M-149 Biological Sciences Centre.

Limnology and Fisheries Discussion Group

13 March, noon. Roy Stein, Ohio State

University, "Solving Practical Problems in Fishery Biology Using Concepts From Experimental Ecology." G-217 Biological Sciences Centre.
20 March, noon. Mark Hanson, "Benthic Invertebrates: Source or Sink for Phosphorus." G-217 Biological Sciences Centre.

Economics

13 March, 3:30 p.m. Glenn MacDonald, University of Western Ontario, "An Operational Model of Monopoly Union-Competitive Firm Interaction." 8-22 Tory Building.

Guild for Medieval and Renaissance Studies

13 March, 3:30 p.m. R.J. Buck, "East-West Diplomacy in the Eleventh Century: Liutprand and his Troubles." TB-W2 Tory Building.

Germanic Languages

14 March, 4:30 p.m. H.A. Pausch, "Kafka und die Frauen"—part of the official opening of the Kafka Exhibition. A visit to Rutherford South to view the exhibit will follow. Senate Chamber, Arts Building.

Library Science

19 March, 2 p.m. An informal session with Tom D. Wilson, Head of the Department of Information Studies, University of Sheffield. He will discuss his field and respond to questions. 3-01 Rutherford South.
19 March, 7:30 p.m. Tom D. Wilson, "Information in Organizations and Society." L-3 Humanities Centre. Both lectures co-sponsored by the Canadian Council of Library Schools.

Soil Science

20 March, 12:30 p.m. J. Carefoot, "Tillage Effects on Yield of Wheat and Fate of Labelled 15N Nitrogen Under Limited Moisture Conditions." 281 CAB.

Centre for Gerontology

21 March, noon. Norah Keating and Gail Gilewich, "Problems in Providing Care for Alzheimer's Patients." Classroom F, Mackenzie Health Sciences Centre.

Films

Germanic Languages

12 March, 7:30 p.m. "Katz Und Maus" (Günter Grass, 1966). Admission free. Arts 17.
19 March, 7:30 p.m. "Quick" (with Hans Albers, Paul Hörbiger, 1932). Admission free. Arts 17.

Japan: Tradition to High-Tech

14 March, 8 p.m. "Hand-Made Japanese Paper," "The Miracle of Tsubosaka Temple (a Kabuki play)," "Manga: The Cartoon in Contemporary Japanese Life," "High-Tech in Japan." Sponsored by the Consulate-General of Japan.

The Arts

Ring House Gallery

Until 16 March. "Rituals/Systems"—the work of five Alberta artists.

Germanic Languages

14 to 28 March. Kafka-Exhibition in Rutherford South, sponsored by the Austrian Embassy.

Bruce Peel Special Collections

Until 30 April. "From Impressionism to Surrealism"—European artists as represented in coffee table books and catalogues raisonnés.
Until 30 April. "Sketches in the Canadas"—23 hand-colored lithographic plates, sumptuously produced by Coke Smyth in 1842. This rare portfolio is the most sought after volume of plates published on Canada. B-7 Rutherford South.

SUB Theatre

6, 7 and 8 March, 8:15 p.m. The U of A Mixed Chorus presents its Spring Concert. Tickets available from Chorus members or call Coleen King, 432-7803.
11 March, 8 p.m. The National and Provincial Parks Association of Canada and the Students' Union present a benefit concert in support of the Conservation of the Queen Charlotte Islands. Performers include BIM and Connie Kaldor. Special Guest: South Moresby artist L. Whitney. Dave Dodge, 424-7275.
12 March, noon. Election Forum. Speeches by all SU candidates and a question period.
14 March, 8 p.m. U of A Women's Centre and Common Woman Books present "Heather Bishop and Tracy Riley." 432-2057 or 432-9344.
15 March, 2:30 and 4 p.m. Chinese Catholic Community presents the Chinese historical film, "Kingdom and Beauty." Bosco Kwan, 456-7222.
16 March, 8 p.m. "Ghostbusters" (1984).

Music

All events take place in Convocation Hall unless otherwise noted.

9 March, 8 p.m. Senior Student Recital—Martin Berger, violin.
10 March, 8 p.m. University of Alberta Stage Band. Neil Corlett, conductor. Tickets at the door or from the Department of Music—\$2 students/seniors; \$4 adults.
11 March, 8 p.m. Senior Student Recital—Kevin Biegel, piano.
12 March, 7:30 p.m. University of Alberta Wind Ensemble—Fordyce Pier, director, and the Edmonton Public Schools All-City Band—Garry Silverman, conductor. Victoria Composite High School.
15 March, 8 p.m. Senior Student Recital—Michelle Sautner, piano.
16 March, 8 p.m. New Music by Undergraduate Composers.
18 March, 8 p.m. Senior Student Recital—Merrill Tanner, soprano.
20 March, 8 p.m. Senior Student Recital—Heather Kendrick, soprano.

Edmonton Film Society, International Series

10 March, 8 p.m. "A Taste of Water (The Hes Case)" (Holland). TL-11 Tory Lecture Theatre.
17 March, 8 p.m. "Yol" (Turkey). TL-11 Tory Lecture Theatre.

Théâtre Français d'Edmonton

8 to 16 March. Vith Franco-Albertan Theatre Festival. Ana Power, 469-0829.

Edmonton Chamber Music Society

12 March, 8 p.m. Helmut Brauss and the Debut String Quartet. Admission by season membership. 433-8102.

Award Opportunities



Maimie S. Simpson Memorial Scholarship

The scholarship, to be presented for the seventh time in 1986, is in the amount of \$1,500. It will be presented by the Alumni Association to a full-time student who has attended the University of Alberta for at least the two previous years.

Criteria

1. The basis for selection will be the student's contribution to campus life and to the University of Alberta community.
2. The student must have a satisfactory academic standing and plan to continue studies at the University of Alberta.

Application forms and further information may be obtained from: University of Alberta, Alumni Affairs Office, 430 Athabasca Hall. Telephone: 432-3224.

Application deadline: 14 March 1986.

Positions

The University of Alberta is committed to the principle of equal opportunity in employment and encourages applications from all qualified people.

In accordance with Canadian Immigration requirements, these advertisements are directed to Canadian citizens and permanent residents.

Academic

Edmonton Division Head, Faculty of Social Welfare, University of Calgary

The University of Calgary invites applications for the position of Division Head in the Edmonton Division of the Faculty of Social Welfare. The Division has a full-time faculty of eight and a student body of 130 in an accredited first professional degree program. Responsibilities of the successful applicant will include administration and leadership in all components of the program.

Appointment will be at the Associate Professor level and an MSW and doctorate are required. Preference will be given to a doctorate in social work. A background in administration and university teaching is desirable.

Appointment date: 1 July 1986.

Interested persons may call 432-3888 for further information.

A letter of application, *curriculum vitae*, and the names and addresses of three referees should be sent before 30 April 1986 to: Dr. Ray J. Thomlison, Dean, Faculty of Social Welfare, University of Calgary, 2500 University Drive, N.W., Calgary, Alberta T2N 1N4.

Assistant Professor, Faculty of Social Welfare, University of Calgary, Edmonton Division

The University of Calgary invites applications for the position of Assistant Professor in the Edmonton Division of the Faculty of Social Welfare. The Division has a full-time faculty of eight and a student body of 130 in an

accredited first professional degree program. Responsibilities of the successful applicant will include undergraduate teaching in human development and direct practice. Professional experience in the mental health field is desirable.

Appointment will be at the Assistant Professor level and possession of a PhD or DSW in social work is required. A graduate degree in social work and a doctorate in a related discipline will be considered if the applicant evidences outstanding research and practice experience. Demonstrated teaching experience is essential.

Appointment date: 1 July 1986.

Interested persons may call 432-3888 for further information.

A letter of application, *curriculum vitae*, and the names and addresses of three referees should be sent before 30 April 1986 to: Dr. Ray J. Thomlison, Dean, Faculty of Social Welfare, University of Calgary, 2500 University Drive, N.W., Calgary, Alberta T2N 1N4.

Department of Educational Psychology, Assistant Professor, Counselling and School Psychology Program

Applications are invited for a tenure track position at the Assistant Professor level with specific duties in counsellor education in an Educational Psychology context. Candidates must have a PhD or equivalent. Candidates must also have proven clinical skills plus the ability to formulate, design, conduct and report counselling research. Expertise in multivariate technique and longitudinal design would be a distinct asset. Only applicants who have documentable interest in issues pertinent to the counselling of women will be seriously considered. An eclectic perspective versus a narrow theoretical commitment is desirable. School-related experience and/or a teaching credential or eligibility for same would be an asset. Applicants should possess qualifications in an allied field such as school psychology or developmental psychology. Duties will accent teaching, clinical supervision, course development, and both master's and PhD thesis advisement.

The salary range for Assistant Professor is currently \$30,316 to \$43,780.

Closing date: 1 June 1986 or sooner depending upon quality and quantity of applicants.

The availability of this position is subject to funding approval.

Letters of application with *curriculum vitae*, article reprints, the names of three referees and records of relevant work should be sent to: Dr. H.W. Zingle, Chairman, Department of Educational Psychology, Faculty of Education, 6-102 Education North, University of Alberta, Edmonton, Alberta, Canada T6G 2G5.

Non-Academic

To obtain further information on the following positions, please contact Personnel Services and Staff Relations, 2-40 Assiniboia Hall, telephone 432-5201. These vacancies cannot be guaranteed beyond 28 February 1986.

Laboratory Assistant II, Provincial Laboratory, (\$1,190-\$1,478)
Senior Clerk, Office of the Comptroller, (\$1,190-\$1,478)
Clerk Steno III (Trust), Pharmacy, (\$1,326-\$1,666)
Clerk Steno III, Biochemistry, (\$1,326-\$1,666)
Clerk Steno III, Dean of Science, (\$1,326-\$1,666)
Clerk Steno III (Trust), International Briefing Centre, (\$1,326-\$1,666)
Clerk Steno III (Term),

Extension—Public Administration, (\$1,326-\$1,666)
Data Entry Operator II, Computing Services, (\$1,371-\$1,739)
Secretary (Trust), Institute of Law Research and Reform, (\$1,478-\$1,888)
Secretary, Housing and Food Services, (\$1,478-\$1,888)
Secretary, Planning and Development, (\$1,478-\$1,888)
Departmental/Executive Secretary (Trust), Graduate Students' Association, (\$1,666-\$2,144)
Electronics Technician II/III, Chemistry, (\$1,810-\$2,661)
Technologist II (Trust), Genetics, (\$1,888-\$2,437)
Technologist III, Computing Science, (\$2,237-\$2,905)

For vacant Library positions, please contact the Library Personnel Office, Basement, Cameron Library, 432-3339.

Advertisements

Accommodations available

Sale - New listing, Parkallen. Fine, four-bedroom home. Upgraded kitchen, bathroom. Good basement development. \$81,900. Call Joyce Byrne, 435-6064, 436-5250. Spencer's.
Sale - Lake lot. Behind park reserve. Sunshine Bay, Wabamun. \$29,000. (604) 248-8013.
Rent - Bonnie Doon. One-bedroom, four appliances. \$270. 465-2632.
Sale - Four-bedroom semi-bungalow, 15-minute walk to University. Hardwood floors, beautifully finished basement suite. 9 3/4% mortgage, \$84,500. 438-3484.
For rent - July 1986-June 1987, three bedrooms, garage, fenced, furnished. \$650/month. (413) 465-3740. 9011 92 St.
Rent - Office space. Professional Building, Whyte Ave. Excellent opportunity! \$200/month, including utilities. Many extras. Available immediately. Call 431-1185.

For sale - Windsor Park. Well maintained bungalow. \$135,700. Call Doug McKim, 435-4983 or 436-5080. Royal LePage.

Rent - Available 15 August.

Four-bedroom house, furnished or semi-furnished, in old Strathcona. Large panelled living room and dining room, fireplace, trees. \$825 per month on year's lease. 433-2904.

Sale - Lendrum Crescent. 1,300 sq. ft. bungalow. 1 1/2 baths, double garage. Direct bus to University. Clear title. \$94,900. 435-4137.

Sale - Windsor Park. Bright, immac bungalow. Hardwood floors. 50x150 ft., treed lot. Ask for Pat von Borstel, 436-5250. Spencer's. 437-6540 res.

Sale - Grandview. Spacious, open-beam bungalow on quiet, treed cul-de-sac. South backyard, big trees. Another choice is four-bedroom, 2,000 split, main floor family room. Call von Borstel, 436-5250, 437-6540. Spencer's.

Sale - City residential lots. Some ravine. \$49,000 up. Buy now, build in spring. Pat, 436-5250, 437-6540. Spencer's.

Sale - 160 acres, \$25,900. Close to Long Lake. Good fishing. Pat or Chris, 436-5250, 437-6540. Spencer's.

Sublet - Two-bedroom condominium, Blue Quill. 23 April-27 August 1986. Fireplace, private yard, very well furnished. \$475/month plus utilities. No pets. References. Deposit. 438-1006 evenings, weekends. 432-3315 days.

Rent or sale - 1,000 sq. ft., executive apartment, furnished, downtown. 1 April-30 September. 488-3258.

Rent - Furnished, one-bedroom apartment, 18 floor river view, five appliances, pool, sauna. Half block from campus. May (or Sept.) 1986-August 1987. 432-5494, 433-4136.

Rent - Three-bedroom duplex. Furnished, Ottewell. September 1986-August 1987. 468-2916.

Accommodations wanted

Psychology professor requires house for approximately one-year period from August 1986. Phone (403) 343-064 after 6 p.m.

EXPO 86 Passes

The 1986 World Exposition opens in Vancouver, British Columbia on May 2nd and runs until October 13th, 1986.

With unprecedented participation by nations, provinces, and organizations, EXPO 86 is now in its final stages of preparation to host the world. A national celebration of an international event, EXPO 86 will be one of the most spectacular World Expositions ever held!

For a group of 20 people or more the following group ticket rates will apply:

Category	Adult	Child/Seniors
Season Passes	\$129.00	\$64.50
Royal Bank 3-Day:	\$ 36.95	\$18.45
One-Day:	\$ 18.00	\$18.00

(Children 5 years and under are admitted free. To qualify for Child/Senior rates: children must be 12 years old or younger on May 2, 1986; seniors must be 65 years of age by October 13, 1986.)

People not wishing to participate in the group ticket plan may purchase their tickets directly through the Expo office, at the individual rates. A brochure with additional information and order form can be obtained from Personnel Services and Staff Relations (432-3698).

If you have any questions, you may call Wendy Lee Romano, Vancouver Office, at (604) 689-1986.

EXPO 86 — Don't Miss it for the World!

Responsible couple will house-sit for approximately one month this summer. We don't smoke, we love small animals, we are amateur gardeners. References provided. 432-0690.

Foreign Consul requires three-bedroom house or townhouse, from 1 April or 1 May 1986. 422-3752 days, 487-5327 anytime.

Goods for sale

paid for used appliances. 432-0272.
selection of new and used typewriters from \$99. Mark 9, HUB Mall. 432-7936.

Services

Donnic Word Processing. Specializing in theses, manuscripts, etc. 8315A 105 St. 432-1419.

Backaches? Stress tension? Special therapy at Back-Basics (supplementary health care reimburses treatment costs). Maria Krieg is a spine specialist, university-trained in Düsseldorf. 11610 75 Avenue. 436-8059.

Professional typing. We do "rush stuff." 461-1698.

Professional typist - Word processing. Specializing in theses and dissertations. Gwen, 467-9064.

Word processing - Experience doing theses, manuscripts, books, grants, etc.

Medical terminology. \$1.90/page. IM Office Automation. 424-5719.

Baby-sitter wanted for one, seven-month-old boy. University area home, three mornings per week, non-smoker, references required. 432-1079.

Part-time, grade 11 student seeking work in academic environment. Willing to be trained. Call 435-7129 evenings. Ask for Michelle.

Thesis/ business - Computer/word processor/typewriter. All-Type, 451-6199.

Editing, proofreading, indexing. Prompt, reliable, accurate service and reasonable rates on manuscripts of all

types. 434-8053, anytime.

Experienced architect. Will do renovation/new home designs. Call 973-3198 (local).

Professional seamstress and tailors. Made to order garments. General alterations. 469-6292, consultant Phil.

Word processing service/copy shop specializes in theses and résumés. Cheque, Visa, Mastercard accepted. Open evenings, Saturdays. Mark 9, HUB Mall. 432-7936.

JL Citation Services. Computerized literature searching - all fields. Full searches & automatic updating. Search strategies carefully formulated. Satisfaction guaranteed. 487-8652.



St. Joseph's College ACADEMIC MASS

Wednesday, March 19, 1986 — 4:00 p.m.

*Opening of Jubilee Year
1926 - 1986*

Faculty are invited to wear Academic Costume
Social after Mass in the Newman Centre



*Spicy & Tasty Food

*1st in Edmonton



15525 Stony Plain Rd.
Edmonton, Alta. T5P 3Z1
Phone: 486-1136

Richard & Doris Chu

University of Alberta

Summer Language Bursary Program 1986 French as a Second Language

Faculté Saint-Jean in cooperation with
Université du Québec in Rimouski

Rimouski, Québec — May 19 to June 28, 1986

Eligibility: **Full time Student in at least One Semester
18 years of age**

Information: Mr. Lucien Larose, coordinator
Faculté Saint-Jean
8406 - 91st Street
Edmonton, — T6C 4G9
TEL: (403) 468-1254

N.B. Non-bursary students welcomed

AUCTION

UNIVERSITY OF ALBERTA & EDMONTON PUBLIC SCHOOLS

Saturday, Apr. 26th, at 10:00 a.m.
Previewing:

Fri., Apr. 25th, 4:00 - 8:00 p.m.

Sat., Apr. 26th, 8:00 - 10:00 a.m.

14640 - 115 AVENUE

Deadline for Equipment Declarations is April 1st!

For further information contact
Jody Brockwell
Materials Mgmt. Dept., at #5393

TRAVEL CUTS **CORPORATE SERVICES**

TRAVEL CUTS is fully appointed to make reservations for airlines, car rentals, hotels and tours — both international and domestic. We are fully computerized and our staff is knowledgeable about all aspects of travel. We offer you — a separate office with full-time staff working only on faculty travel — convenient on-campus location — a company with 15 years in the travel industry — support of 14 Canadian offices and one in London, England.

**Canadian Universities
Travel Service Ltd**
Main Floor, SUB 432-2756

Centre de L'Education Permanente Faculté Saint-Jean University of Alberta

A three-week intensive programme designed specifically to increase competency and fluency in French

Spring and Summer 1986

May 5 - 23, 1986
July 7 - 25, 1986
August 5 - 22, 1986
Courses: 9:00 to 3:00 p.m.
Tuition fee: \$275.00

Information: Lucien Larose, coordinator,
Faculté Saint-Jean
8406 - 91^{ème} rue
Edmonton, Alta.
(403) 468-1254

Attention All Graduate Students

Graduate Students'
Association

**Annual General Meeting
and
Election of Officers**

March 6, 1986
6:00 p.m.
Back Room
North Power Plant

Be There !!!

Lectures and Films

JAPAN: TRADITION TO HIGH-TECH

March 12-14, 1986

See 'Talks' Section for Details

University of Alberta
Department of Plant Science

*The Endowment Fund for the Future
Distinguished Speakers*

**Why are the Tropics Different?
Drought, Phenology and the Yield of Crops**

By

Professor A. H. Bunting
Professor Emeritus
University of Reading

Date: Wednesday, March 19, 1986
Time: 1:00 p.m.
Place: 1-06 Agriculture-Forestry Centre

**University of Alberta
Department of Athletics**

hosts the

1986 C.I.A.U. Indoor Track & Field Championships

March 14th - 15th, 1986

Schedule of Events

Friday, March 14th, 1986
6:30 p.m. - 10:00 p.m.

Saturday, March 15th, 1986
1:00 p.m. - 5:00 p.m.

Location for all events:
Universiade Pavilion, University of Alberta

General Admission:
\$8.00/Pass — \$5.00/Day — Non-Student
\$5.00/Pass — \$3.00/Day — Student
Free 12 and under

Tickets available from:
Department of Athletics, 220 Pavilion
432-3365